

Claims

[1] A connector for locking a film wire, the connector 10; 20 comprising a housing 11; 12 with an insert hole 11a; 21a formed therethrough and a number of terminals 12; 22 inserted and fixed to the housing 11; 12 through the insert hole 11a; 21a, and being adapted to allow a contact pin 19; 29 of the film wire 18; 28 to be brought into intimate contact with a contact portion 12; 23 of each terminal 12; 22 when the film wire 18; 28 is inserted into the housing 11; 21 through the insert hole 11a; 21a, wherein each terminal 12; 22 of the connector 10; 20 comprises the contact portion 13; 23 formed at one side of the terminal 12; 22, and a seesaw member 14; 24 integrally formed at the other side of the terminal 12; 22 opposite to the contact portion 13; 23 via a central portion 15; 25 to seesaw about the central portion 15; 25 by the film wire 18; 28 when the film wire 18; 28 is inserted into the housing 10; 20.

[2] The connector according to claim 1, wherein the seesaw member 14; 24 integrally formed to each terminal 12; 22 via the central portion 15; 25 comprises a protrusion 16; 26 formed at one side of the central portion 15; 25, and a compressing portion 17; 27 formed at the other side of the central portion 15; 25.

[3] The connector according to claim 1 or 2, wherein the compressing portion 17; 27 of the seesaw member 14; 24 is formed to face the contact portion 13; 23 of the terminal 14; 24 while being separated from the contact portion 13; 23 by a distance greater than or equal to a thickness of the film wire 18; 28 having the contact pin 19; 29, and the protrusion 16; 26 opposite to the compressing portion 17; 27 forms a gap in front of the protrusion 16; 26 to have a distance smaller than the thickness of the film wire 18; 28 having the contact pin 19; 29.

[4] A connector for locking a film wire, the connector 30; 40 comprising a housing 31; 41 having an insert hole 31a; 41a formed therethrough and a number of terminals 32; 42 inserted and fixed to the housing 31; 41, and being adapted to allow a contact pin 39; 49 of the film wire 38; 48 to be connected to a substrate via the terminals 32; 42 when the film wire 38; 48 is inserted into the housing 31; 41 through the insert hole 31a; 41a, wherein each terminal 32; 42 of the connector 30; 40 comprises a pair of seesaw members 33 and 34; 43 and 44 formed to face each other within the housing 31; 41, and integrally formed to the terminal 32; 42 via a central portion 35; 45 to seesaw by the film wire 38; 48 when the film wire 38; 48 is inserted into the housing 31; 41.

[5] The connector according to claim 4, wherein each of the seesaw members 33 and 34; 43 and 44 has a protrusion 36; 46 formed at one side of the central portion 35; 45, and a compressing portion 37; 47 formed at the other side of the central

portion 35; 45.

[6] The connector according to claim 4 or 5, wherein, in each pair of seesaw members 33 and 34; 43 and 44, the protrusions 36; 46 face each other while forming a gap therebetween to have a distance smaller than a thickness of the film wire 38; 48 having the contact pin 39; 49, and the compressing portions 37; 47 face each other while forming a gap therebetween to have a distance greater than or equal to the thickness of the film wire 38; 48 having the contact pin 39; 49.